

METHOD AND SYSTEM FOR DESORPTION AND RECOVERY OF DESORBED COMPOUNDS

ABSTRACT OF THE DISCLOSURE

A method for desorption and recovery of desorbed compounds, including the steps of generating a recirculating stream of inert gas (1), which passes through the material (2) to be desorbed, heating such inert gas stream to a temperature sufficient to cause the desorption process, yielding a gas effluent (3) from such recirculating stream of inert gas (1) in such a manner that the recirculated gas keeps a constant pressure, cooling such gas effluent to cause condensation of the desorbed compounds contained in such gas effluent (3), the cooling being obtained at least partly by pressure vaporization of a cryogenic fluid (4), and feeding such recirculating gas stream (1) by using at least a part of such pressure vaporized cryogenic fluid that was previously used to cool at least a part of the gas effluent (3).